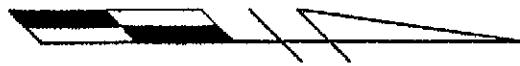


PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC SIGNAL AT THE INTERSECTION OF MD 755 AND WILLOUGHBY BEACH ROAD IN HARFORD COUNTY. MD 755 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION. THIS WORK WILL CONSIST OF SPLITTING THE MD 755 PHASING.

CONTROLLER OPERATION

THE INTERSECTION CURRENTLY OPERATES IN A NEMA FIVE-PHASE, FULL-TRAFFIC-ACTUATED MODE, WITH THE MD 755 APPROACHES OPERATING CONCURRENTLY AND THE WILLOUGHBY BEACH ROAD APPROACHES OPERATING CONCURRENTLY. AN EXISTING EXCLUSIVE-PERMISSIVE LEFT TURN PHASE EXISTS FOR SOUTHBOUND MD 755. THE MD 755 APPROACHES SHALL BE CHANGED TO SPLIT PHASING AND THE EXCLUSIVE-PERMISSIVE PHASE WILL BE ELIMINATED.



PHASE CHART

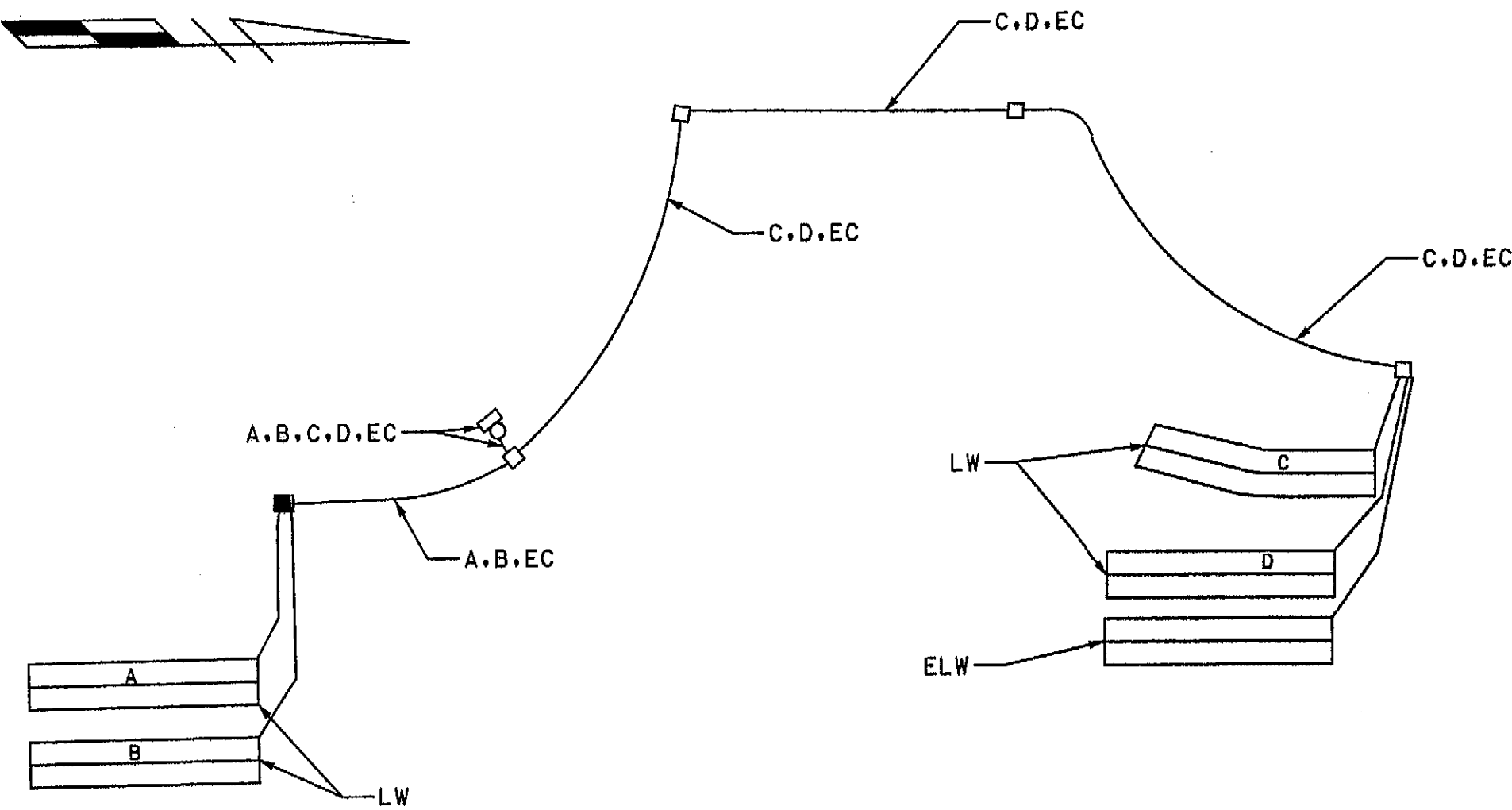
	1	2	3	4	5	6	7	8	9	10	
	Ⓡ	Ⓡ	Ⓡ	Ⓡ	Ⓡ	Ⓡ	Ⓡ	Ⓡ	Ⓡ	Ⓡ	
PHASE 1	R	R	G	R	R	R	R	R	R	R	→
1 CHANGE	R	R	Y	Y	R	R	R	R	R	R	→
PHASE 2	G	R	R	R	R	R	R	R	R	R	→
2 CHANGE	Y	Y	R	R	R	R	R	R	R	R	→
PHASE 4 & 8	R	R	R	R	G	G	G	G	G	G	→
4 & 8 CHANGE	R	R	R	R	Y	Y	Y	Y	Y	Y	→
FLASHING OPERATION	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	→

EQUIPMENT LIST

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR. ALL EQUIPMENT IN THIS LIST SHALL HAVE CATALOG CUTS SUBMITTED TO DOTS FOR APPROVAL PRIOR TO INSTALLATION.

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC
5004	15 L.F.	FURNISH AND INSTALL 24 IN. HEAT APPLIED THERMOPLASTIC PAVEMENT MARKING
5006	3 EA	FURNISH AND INSTALL THERMOPLASTIC PAVEMENT MARKING ARROWS
8021	480 L.F.	FURNISH AND INSTALL SAW CUT FOR SIGNAL LOOP DETECTOR
8023	25 L.F.	FURNISH AND INSTALL 1 IN. LIQUID-TIGHT, NON-METALLIC FLEXIBLE CONDUIT
8040	1800 L.F.	FURNISH AND INSTALL LOOP WIRE ENCASED IN 1/4 IN. FLEXIBLE TUBING (3-6-3 WINDING)
8041	520 L.F.	FURNISH AND INSTALL 2-CONDUCTOR ELECTRICAL CABLE (ALUMINUM SHIELDED)
8051	15 L.F.	FURNISH AND INSTALL WOOD SIGN SUPPORTS 4 IN. X 6 IN.
---	1 EA	REMOVE EXISTING SIGN
---	2 EA	REMOVE EXISTING SIGNAL HEAD
---	2 EA	FURNISH AND INSTALL 12 IN. ONE-WAY, FOUR-SECTION (R,Y,G,GA) SIGNAL HEAD - MAST ARM MOUNT
---	1 EA	FURNISH AND INSTALL R3-5L SIGN (30"X36") - MAST ARM MOUNT
---	1 EA	FURNISH AND INSTALL R3-6L SIGN (30"X36") - MAST ARM MOUNT
---	1 EA	FURNISH AND INSTALL 4-CHANNEL TIME DELAY OUTPUT LOOP DETECTOR AMPLIFIER
---	1 EA	FURNISH AND INSTALL R1-2 "YIELD" SIGN (36 IN. X 36 IN.) GROUND MOUNT
---	1 EA	FURNISH AND INSTALL W4-4 "NO MERGE AREA" SIGN (30 IN. X 30 IN.) GROUND MOUNT

WIRING DIAGRAM



WIRE KEY
A-D 2-CONDUCTOR ELECTRICAL CABLE (ALUMINUM SHIELDED)
EC EXISTING CABLE
LW LOOP WIRE (NO. 14 A.W.G.)
ELW EXISTING LOOP WIRE

EQUIPMENT LIST "A"

B. EQUIPMENT TO BE FURNISHED BY SHA AND INSTALLED BY CONTRACTOR

ITEM NO.	QUANTITY	DESCRIPTION
NONE		

EQUIPMENT LIST "C"

C. EXISTING EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND DELIVERED TO THE STATE HIGHWAY ADMINISTRATION, 7491 CONNELLEY DRIVE, HANOVER, MARYLAND 21076. THE CONTRACTOR SHALL NOTIFY THE SHA AT (410) 787-7652 AT LEAST THREE DAYS IN ADVANCE OF DELIVERY.

ITEM NO.	QUANTITY	DESCRIPTION
NONE		

CONTACT PERSONS FOR DISTRICT 4 ARE AS FOLLOWS:

MR. DAVID MALKOWSKI DISTRICT ENGINEER (410) 321-2810	MR. JOSEPH McMAHON ASSISTANT DISTRICT ENGINEER - UTILITIES (410) 321-2841
MR. RANDALL SCOTT ASSISTANT DISTRICT ENGINEER - TRAFFIC (410) 321-2798	MR. DAVE RAMSEY ASSISTANT DISTRICT ENGINEER - MAINTENANCE (410) 321-2761

CONTACTS FOR OFFICE OF TRAFFIC AND SAFETY

MR. RICHARD DAFF SR. CHIEF, TRAFFIC OPERATIONS (410) 787-7630	MR. EUGENE BAILEY TEAM LEADER SIGN OPERATIONS (410) 787-7676
MR. ROBERT SNYDER ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS (410) 787-7631	MR. DAVID SCHWARTZ SUPPLY OFFICE IV (SIGNAL SHOP WAREHOUSE) (410) 787-7668
MR. ED RODENHIZER TEAM LEADER SIGNAL OPERATIONS (410) 787-7652	

CONTACT FOR POWER COMPANY

BALTIMORE GAS AND ELECTRIC CO.
INDUSTRIAL/COMMERCIAL SERVICES
NEW BUSINESS CONSTRUCTION
7317 PARKWAY DRIVE SOUTH
HANOVER, MARYLAND 21076

ALL REMOVED SIGNAL EQUIPMENT AND MATERIALS NOT LISTED ABOVE SHALL BECOME THE PROPERTY OF THE CONTRACTOR.



MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
GENERAL INFORMATION SHEET
MD 755 AND WILLOUGHBY BEACH ROAD

DRAWN BY: T.M.Z	F.A.P. NO. 17320 GI	TS NO.	SHEET NO.
CHECKED BY: K.W.S	S.H.A. NO.	T.I.M.S. NO.	2 OF 2
SCALE: NONE	COUNTY: HARFORD	E-380	
DATE: 9-7-00	LOG MILE:		